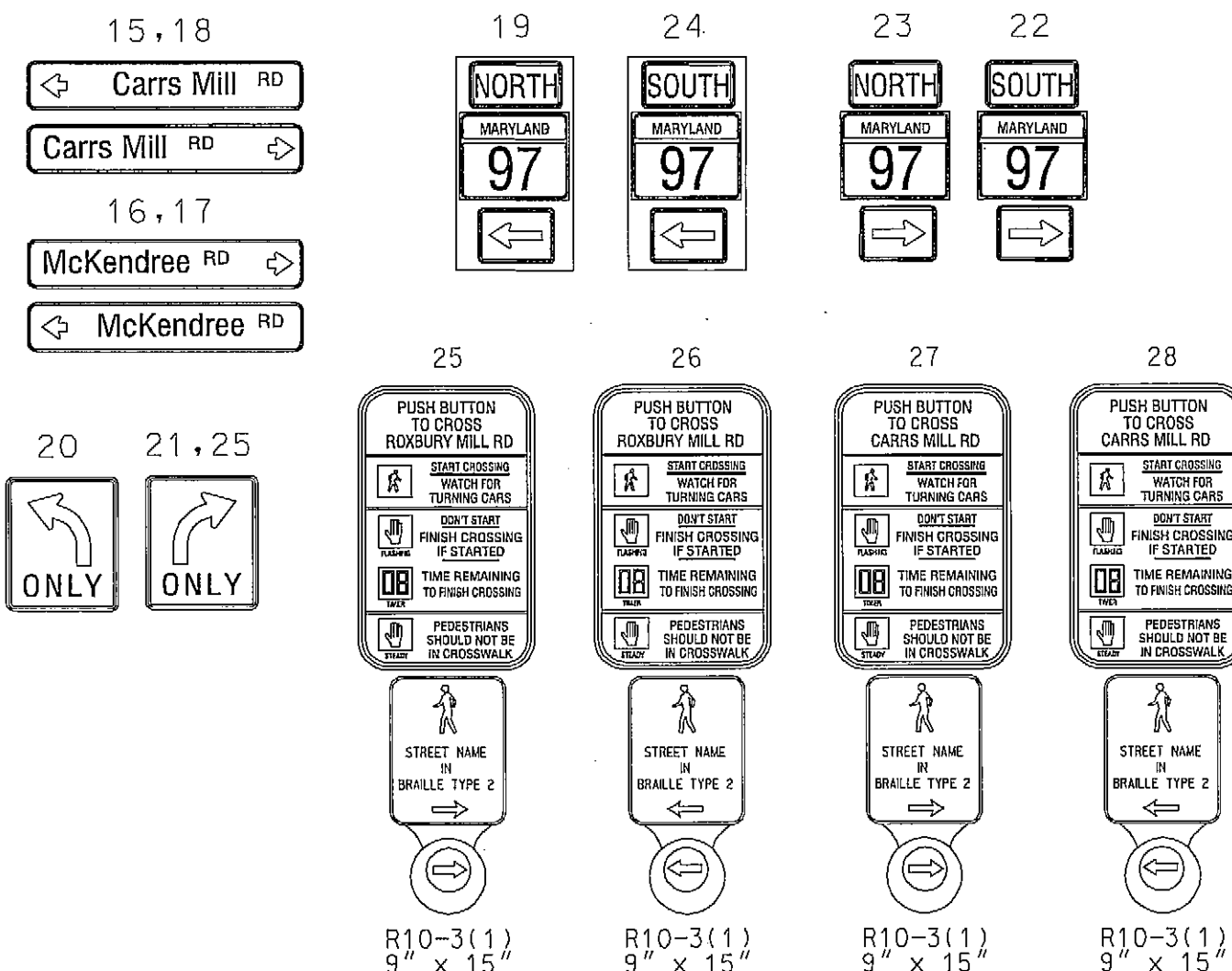
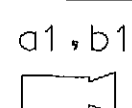


MD 97 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

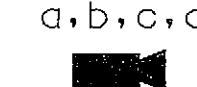
EXISTING SIGNS



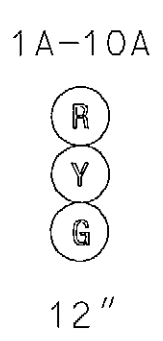
EXISTING VIDEO
DETECTION CAMERA
TO BE REMOVED



PROPOSED VIDEO
DETECTION CAMERA



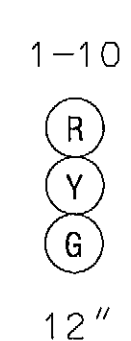
EXISTING SIGNALS
TO BE REMOVED



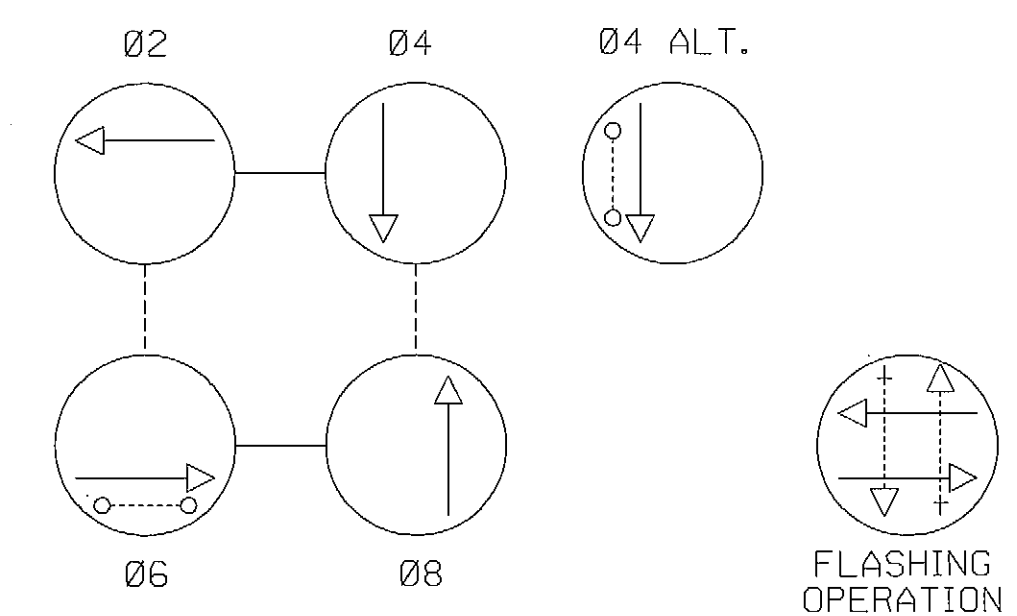
EXISTING SIGNALS
TO REMAIN



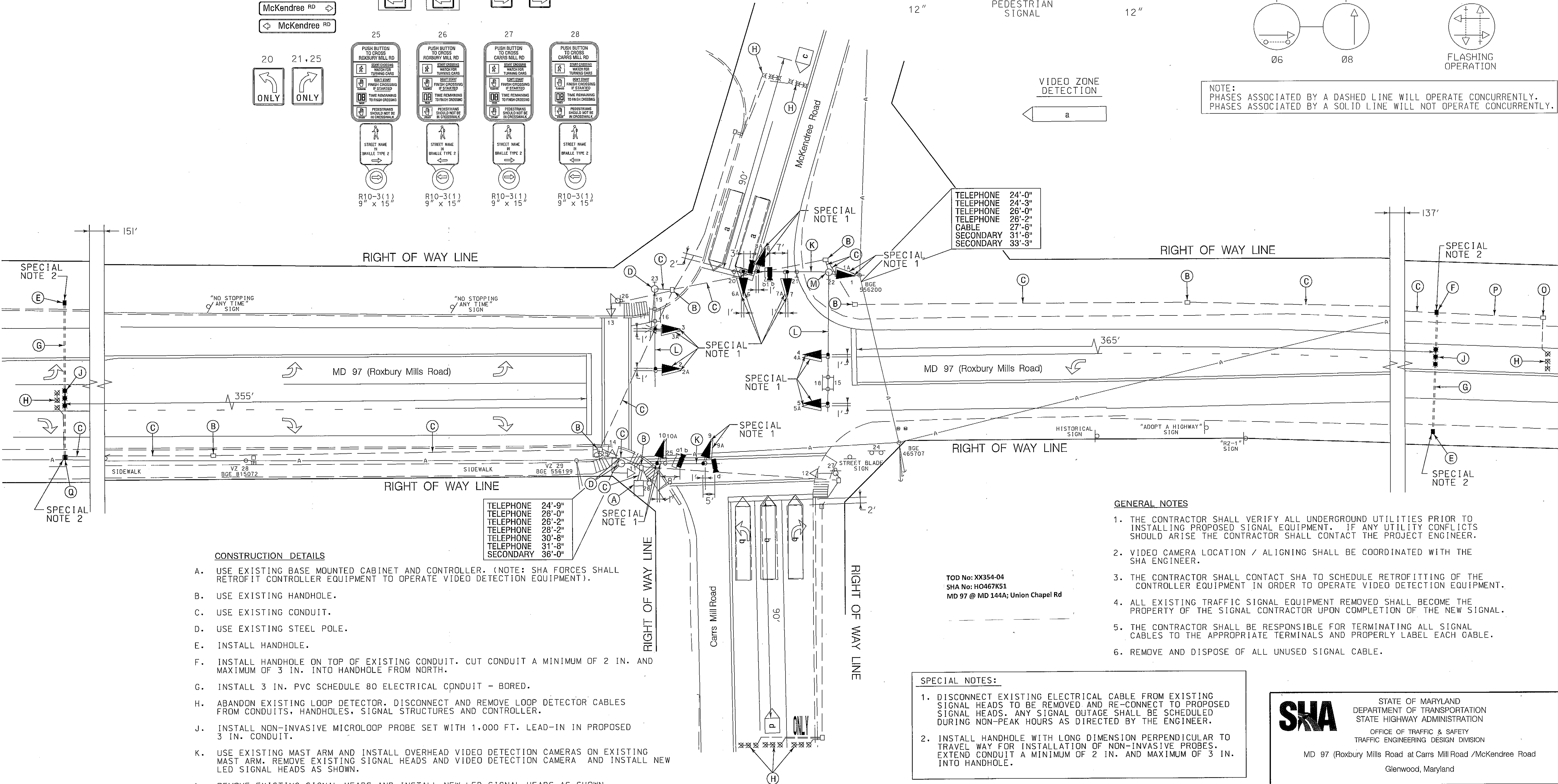
PROPOSED SIGNALS



NEMA PHASING



NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

- USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT).
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- USE EXISTING STEEL POLE.
- INSTALL HANDHOLE.
- INSTALL HANDHOLE ON TOP OF EXISTING CONDUIT. CUT CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE FROM NORTH.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
- USE EXISTING MAST ARM AND INSTALL OVERHEAD VIDEO DETECTION CAMERAS ON EXISTING MAST ARM. REMOVE EXISTING SIGNAL HEADS AND VIDEO DETECTION CAMERA AND INSTALL NEW LED SIGNAL HEADS AS SHOWN.
- REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW LED SIGNAL HEADS AS SHOWN.
- USE EXISTING STEEL POLE. REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW LED SIGNAL HEADS AS SHOWN.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- REMOVE EXISTING HANDHOLE.
- CAP AND ABANDON EXISTING CONDUIT BEYOND PROPOSED HANDHOLE.
- REMOVE EXISTING HANDHOLE AND RE-INSTALL IN-KIND ROTATING HANDHOLE 90 DEGREES TO ROADWAY ON TOP OF EXISTING CONDUIT HEADING SOUTH LEAVING 6 IN. PROTRUDING INTO HANDHOLE.

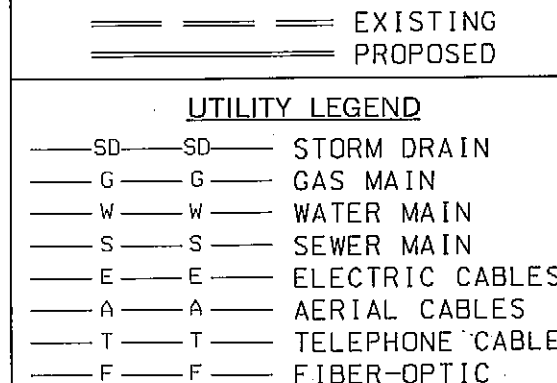
GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.

SPECIAL NOTES:

- DISCONNECT EXISTING ELECTRICAL CABLE FROM EXISTING SIGNAL HEADS TO BE REMOVED AND RE-CONNECT TO PROPOSED SIGNAL HEADS. ANY SIGNAL OUTAGE SHALL BE SCHEDULED DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
- INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.

GEOMETRIC LEGEND



APPROVALS

| | |
|------------------|--|
| TEAM LEADER | |
| ASST. DIV. CHIEF | |
| DIVISION CHIEF | |
| OFFICE DIRECTOR | |

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|--|---------------|
| 1 | UPGRADED VIDEO DETECTION, INSTALLED NON-INVASIVE PROBES AND LED SIGNAL HEADS | 4/16/2010 |
| 2 | RELOCATED PED POLE & INSTALL CAMERA DETECTION EB CARRS MILLS RD & APS COUNTDOWN PEDS | NOV. 27, 2006 |
| 3 | REPLACED DAMAGED EQUIPMENT AND DETECTION PHONE B10 23661725001 | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

TRAFFIC SIGNALIZATION PLAN

| | | |
|-------------------------------|---------------------|--------------------------|
| SCALE 1" = 20' | DATE 10/1/99 | CONTRACT NO. AW-280-5185 |
| DESIGNED BY S. Bloss/N. Leary | COUNTY Howard | |
| DRAWN BY S. Bloss/N. Leary | LOGMILE 13009705.10 | |
| CHECKED BY T. Hannan | TIMS NO. J553 | |
| F.A.P. NO. | TOD NO. | |
| TS NO. 3744 E | DRAWING TSP-2 | OF 3 |
| SHEET NO. 2 | | OF 3 |

WR&A
WHITMAN, REQUARDT
& ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

BY: sbloss

PLOTTED: 04-19-2010
FILE: n:\31669-050\CADD\p8g-P002_J553.dgn